

Figure 1

Inventor: William Soo Hoo  
Docket #: P-IM 2442

	10	20	30	40	50	60	70	80	90	100
ATGGGAGACAG	*	*	*	*	*	*	*	*	*	*
ACACACTCT	*	*	*	*	*	*	*	*	*	*
GCTATGGGTA	*	*	*	*	*	*	*	*	*	*
CTGCTCTCT	*	*	*	*	*	*	*	*	*	*
GGTCAGGG	*	*	*	*	*	*	*	*	*	*
TTCCACTGGT	*	*	*	*	*	*	*	*	*	*
GACTATCAT	*	*	*	*	*	*	*	*	*	*
ATGATGTC	*	*	*	*	*	*	*	*	*	*
CCAGATATGCT	*	*	*	*	*	*	*	*	*	*
GGATATGGCT	*	*	*	*	*	*	*	*	*	*
AGATATGGCT	*	*	*	*	*	*	*	*	*	*
GGGGGCCAAG	*	*	*	*	*	*	*	*	*	*
M E T D T L L	L W V I L L	W V P G S T G	D Y P Y D V P D	D Y A G A Q						
110	120	130	140	150	160	170	180	190	200	
← murine kappa light chain signal sequence										
CACCCACCCG	CTCACCCATC	ACTGTCACCC	GGCCTGGAA	GCATGAG	GCATCAAG	AAGCCCTGAA	CCTCTGGAT	GACATGCTG	TCACGTTGAA	
A P T R S P I	T V T R P W K	H V E A I K E A L N L D D M P V T L N								
← mouse GMCSF										
210	220	230	240	250	260	270	280	290	300	
←										
TGAAGAGGTA	GAAGTCGCT	CTAACGAGTT	CTCTTCAG	AAGCTAACAT	GTGTCAGAC	CGGCCTGAG	ATATCGAGC	AGGGCTACG	GGCCAAATTC	
E E V E V V S N E F S F K R L T C V Q T R L K I F E Q G L R G N F										
310	320	330	340	350	360	370	380	390	400	
←										
ACCAAACTCA	AGGGCCCT	GAACATGACA	GGCAGCTACT	ACCAACATA	CTGGCCCCCA	ACTCCGGAA	CGGACTGTGA	AACACAGTT	ACCAACATG	
T K L R G A L N M T A S Y Y Q T Y C P P T P E T D C E T Q V T T Y										
410	420	430	440	450	460	470	480	490	500	
←										
CGGATTTCAT	AGACAGCCTT	AAACCTTTC	TGACTGATAT	CCCTCTGAA	TGAAAMAAAC	CAGGCCAA	AGTCGACGAA	CAAAACTCA	TCTCAGAAGA	
A D F I D S L R T F L T D I P F E C K R P G Q R V D E Q K L I S E E										
510	520	530	540	550	560	570	580	590	600	
←										
GGATCTGAAT	GCTCTGGGCC	AGGACACCGCA	GGAGCTAC	GGGGCCAC	ACTCCCTCC	CTTAAAGCTG	GGGGTGATCT	CAGCCATCT	GGCCCTGGTG	
D L N A V G Q D T Q E V I V V P H S L P F R V V V I S A I L A L V										
610	620	630	640	650	660	670	680	690		
←										
GGCTCACCA	TCTCTCCCT	TATCATCCTC	ATCATGCTT	GGCAGAGAA	GGCACCTTAG	GGGGCCCTC	GAGATCAGCC	TGAGATGCC	CTCTAG	
V L T I I S L T I L I M L W Q K R P R A A A R D Q P R L C L I										
transmembrane domain										

Figure 2

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

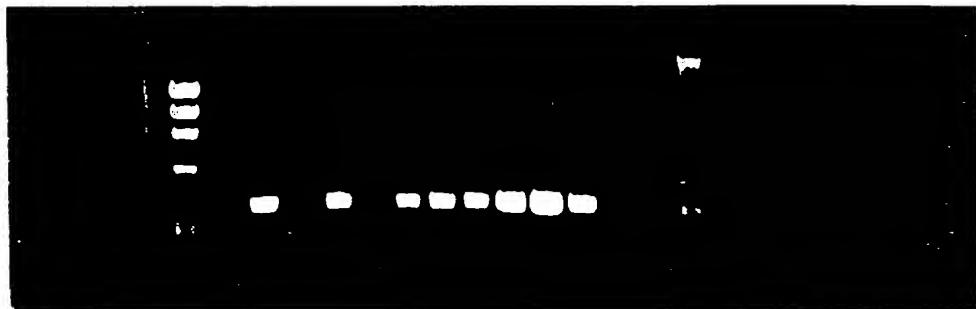


Figure 3

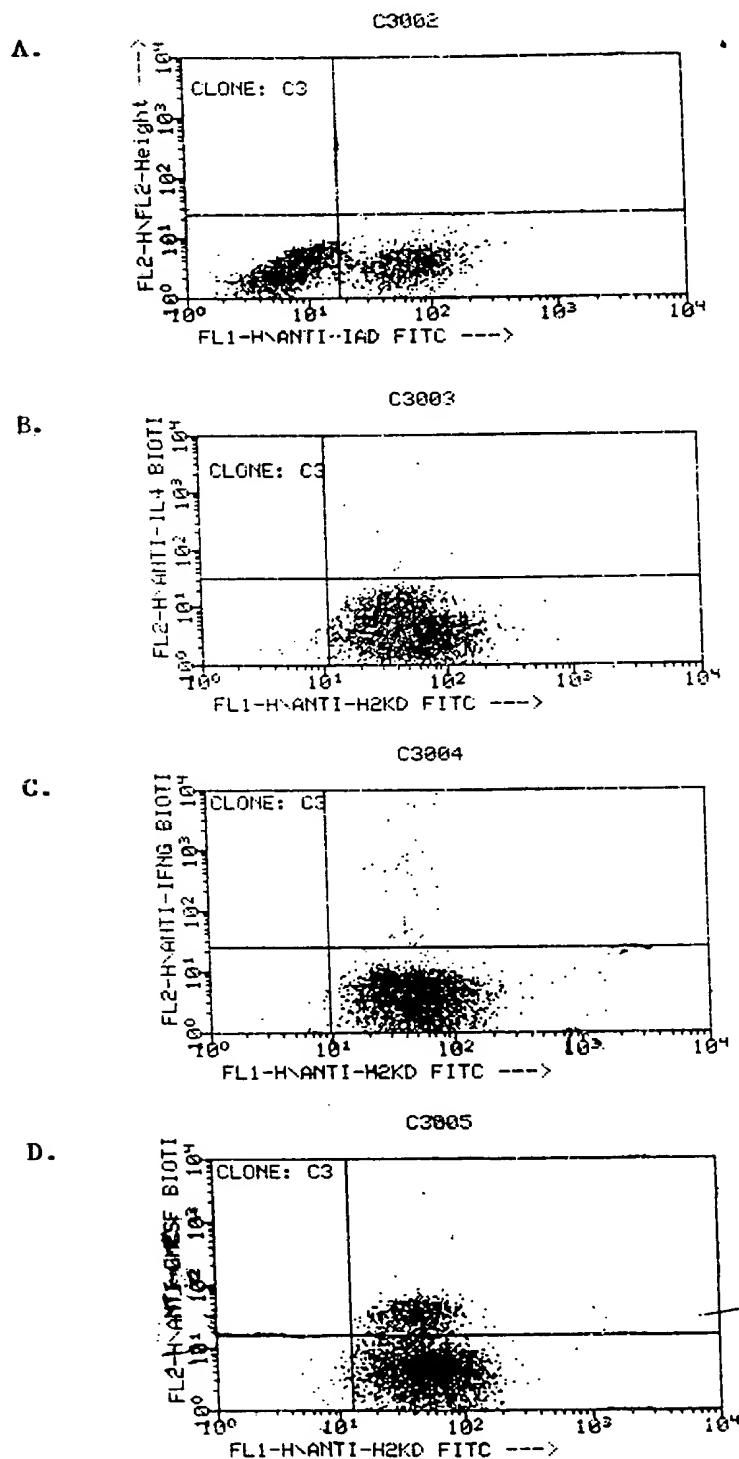


Figure 4